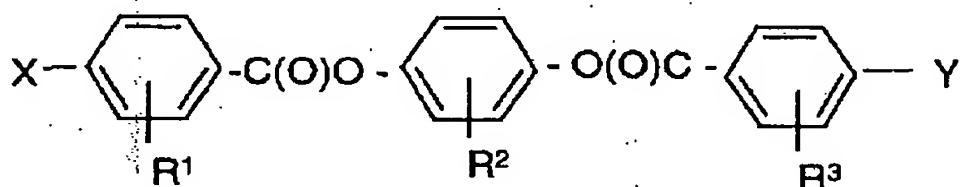


Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 1.-185 (Canceled).

1 186. (Currently amended) Mesogens having the following formula:



2

3 wherein

4 X and Y independently are selected from the group consisting of amino groups,  
 5 polymerizable groups, and combinations thereof, provided that when X is  
 6 polymerizable group, Y is amino group;

7 R<sup>2</sup> is selected from the group consisting of t-butyl groups, isopropyl groups, and  
 8 secondary butyl groups; and

9 R<sup>1</sup> and R<sup>3</sup> are selected from the group consisting of hydrogen and a methyl group  
 10 less bulky than R<sup>2</sup>.

1 187. (Previously presented) The mesogens of claim 186 wherein said  
 2 polymerizable groups have polymerizable unsaturated carbon-carbon bond.

1 188. (Previously presented) The mesogens of claim 186 wherein said  
 2 polymerizable groups are selected from the group consisting of acryloyloxy alkoxy  
 3 groups and methacryloyloxy alkoxy groups having alkyl moiety with from 2 to 12 carbon  
 4 atoms.

1 189. (Previously presented) The mesogens of claim 188 wherein said alkyl  
 2 moiety consists essentially of from 2 to 12 carbon atoms and CH<sub>2</sub> groups optionally are

3 substituted by groups selected from the group consisting of oxygen, sulfur, and ester  
4 groups; provided that two or more carbon atoms separate said oxygen from said ester  
5 groups.

1 190. (Previously presented) The mesogens of claim 189 wherein said alkyl  
2 moiety consists essentially of a total of from 2 to 9 carbon atoms.

1 191. (Previously presented) The mesogens of claim 189 wherein said alkyl  
2 moiety consists essentially of a total of from 2 to 6 carbon atoms.

1 192.-193. (Canceled)

1 194. (Currently amended) The mesogens of claim 186 wherein one or more  
2 ~~membermembers~~ selected from the group consisting of X and Y further consists  
3 essentially of a spacer group.

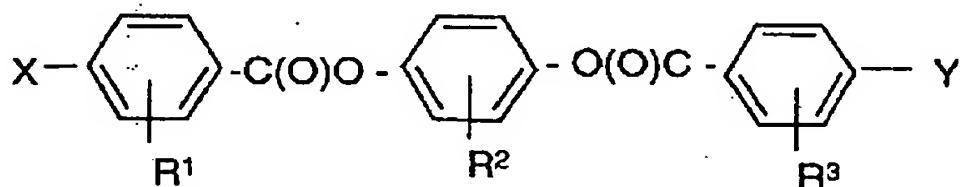
1 195. (Currently amended) The mesogens of claim 187 wherein one or more  
2 ~~membermembers~~ selected from the group consisting of X and Y further consists  
3 essentially of a spacer group.

1 196. (Currently amended) The mesogens of claim 186 wherein one or more  
2 ~~membermembers~~ selected from the group consisting of X and Y is a cinnamoyloxy  
3 group.

1 197. (Currently amended) The mesogens of claim 194 wherein one or more  
2 ~~membermembers~~ selected from the group consisting of X and Y is a cinnamoyloxy  
3 group.

1 198. (Currently amended) The mesogens of claim 195 wherein one or more  
2 ~~membermembers~~ selected from the group consisting of X and Y is a cinnamoyloxy  
3 group.

1 199. (Currently amended) Mesogens having the following formula:



### 3 wherein

4 X is a polymerizable group selected from the group consisting of acryloyloxy alkoxy  
5 groups and methacryloyloxy alkoxy groups having alkyl moiety with from 2 to 12  
6 carbon atoms comprising polymerizable unsaturated carbon-carbon bond;

7 Y comprises an amino group;

8 R<sup>2</sup> is selected from the group consisting of alkyl groups having from about 1 to 6 carbon  
9 atoms and aryl groups; and

10 R<sup>1</sup> and R<sup>3</sup> are selected from the group consisting of hydrogen and a methyl group groups  
11 less bulky than R<sup>2</sup>.

1 200. (Cancelled).

1        201. (Previously presented) The mesogens of claim 200 wherein said alkyl  
2        moiety consists essentially of from 2 to 12 carbon atoms and CH<sub>2</sub> groups optionally are  
3        substituted by groups selected from the group consisting of oxygen, sulfur, and ester  
4        groups; provided that two or more carbon atoms separate said oxygen from said ester  
5        groups.

1        202. (Previously presented) The mesogens of claim 201 wherein said alkyl  
2 moiety consists essentially of a total of from 2 to 9 carbon atoms.

1        203. (Previously presented) The mesogens of claim 201 wherein said alkyl  
2 moiety consists essentially of a total of from 2 to 6 carbon atoms.

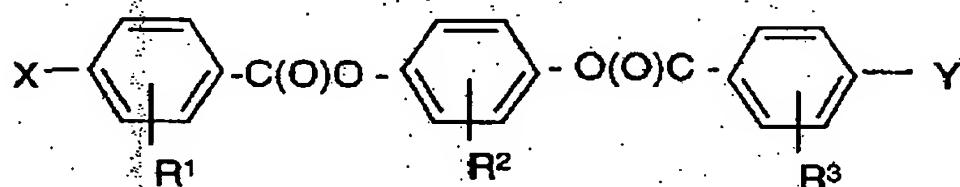
1 204.-205. (Cancelled).

1        206. (Currently amended) The mesogens of claim 199 wherein one or more  
 2 ~~membermembers~~ selected from the group consisting of X and Y further consists  
 3 essentially of a spacer group.

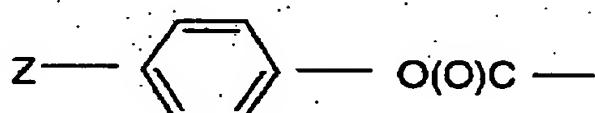
1        207. (Currently amended) The mesogens of claim 201 wherein one or more  
 2 ~~membermembers~~ selected from the group consisting of X and Y further consists  
 3 essentially of a spacer group.

1        208. (Currently amended) The mesogens of claim 204 wherein one or more  
 2 ~~membermembers~~ selected from the group consisting of X and Y comprisesconsists  
 3 essentially of a cinnamoyloxy group.

1        209. (Currently amended) Mesogens having the following formula:



3        wherein X and Y independently are selected from the group consisting of spacer groups,  
 4        polymerizable groups, and combinations thereof, one or more ~~membermembers~~  
 5        selected from the group consisting of X and Y having the following structure:



7        wherein Z is selected from the group consisting of spacer groups, terminal  
 8        functionalities, polymerizable groups, and combinations thereof, said spacer  
 9        groups being selected from the group consisting of H-(CH<sub>2</sub>)<sub>n</sub>-O- groups,  
 10      Cl(CH<sub>2</sub>)<sub>n</sub>-O- groups, Br(CH<sub>2</sub>)<sub>n</sub>-O- groups, I(CH<sub>2</sub>)<sub>n</sub>-O-, wherein n is from about 2  
 11      to about 12 wherein the CH<sub>2</sub> groups independently can be substituted by oxygen,

12       sulfur, or an ester group; provided that at least 2 carbon atoms separate said  
13       oxygen or said ester group;

14       R<sup>2</sup> is selected from the group consisting of alkyl groups having from about 1 to 6 carbon  
15       atoms and aryl groups; and

16       R<sup>1</sup> and R<sup>3</sup> are selected from the group consisting of hydrogen and a methyl group~~groups~~  
17       less bulky than R<sup>2</sup>.

1       210. (Previously presented) The mesogens of claim 209 wherein X and Y  
2       further consist essentially of functionalities independently selected from the group  
3       consisting of hydroxyl groups, amino groups, and sulphydryl groups.

1       211. (Previously presented) The mesogens of claim 210 wherein n is from  
2       about 2 to 9.

1       212. (Previously presented) The mesogens of claim 210 wherein n is from 2 to  
2       6.

1       213. (Previously presented) The mesogens of claim 209 wherein said  
2       polymerizable groups have alkyl moiety having polymerizable unsaturated carbon-carbon  
3       bond.

1       214. (Previously presented) The mesogens of claim 210 wherein said  
2       polymerizable groups have alkyl moiety having polymerizable unsaturated carbon-carbon  
3       bond.

1       215. (Previously presented) The mesogens of claim 214 wherein said alkyl  
2       moiety has from 2 to 9 carbon atoms.

1       216. (Currently amended) The mesogens of claim 214 wherein said alkyl  
2       moiety has from from 2 to 6 carbon atoms.

1        217. (Previously presented) The mesogens of claim 209 wherein R<sup>2</sup> is selected  
2        from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary  
3        butyl groups, and phenyl groups.

1        218. (Previously presented) The mesogens of claim 210 wherein R<sup>2</sup> is selected  
2        from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary  
3        butyl groups, and phenyl groups.

1        219. (Previously presented) The mesogens of claim 213 wherein R<sup>2</sup> is selected  
2        from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary  
3        butyl groups, and phenyl groups.

1        220. (Previously presented) The mesogens of claim 214 wherein R<sup>2</sup> is selected  
2        from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary  
3        butyl groups, and phenyl groups.

1        221. (Previously presented) The mesogens of claim 216 wherein R<sup>2</sup> is selected  
2        from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary  
3        butyl groups, and phenyl groups.

1        222.-223. (Canceled)

1        224. (Previously presented) The mesogens of claim 220 wherein R and R<sup>3</sup> are  
2        selected from the group consisting of hydrogen and methyl group.

1        225. (Previously presented) The mesogens of claim 221 wherein R and R<sup>3</sup> are  
2        selected from the group consisting of hydrogen and methyl group.

1        226. (Currently amended) The mesogens of claim 209 wherein one or more  
2        membermembers selected from the group consisting of X and Y is cinnamoyloxy group.

- 1        227. (Currently amended) The mesogens of claim 217 wherein one or more  
2        ~~member~~members selected from the group consisting of X and Y is cinnamoyloxy group.
  
- 1        228. (Currently amended) The mesogens of claim 222 wherein one or more  
2        ~~member~~members selected from the group consisting of X and Y is cinnamoyloxy group.